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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,448	04/08/2002	Yasutaka Ito	217551US2PCT	4361

22850 7590 11/27/2002

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EXAMINER

LAM, CATHY FONG FONG

ART UNIT	PAPER NUMBER
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1775

DATE MAILED: 11/27/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/019,448

Applicant(s)

ITO ET AL.

Examiner

Cathy Lam

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --****Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on May 2<sup>nd</sup> 2002.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                   | 4) <input checked="" type="checkbox"/> Interview Summary (PTO-413) Paper No(s). <u>8</u> . |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)          | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. | 6) <input type="checkbox"/> Other:   |

In view of the amendment filed on May 2<sup>nd</sup> 2002, applicant stated that such amendment is to replace the Preliminary Amendment filed on Dec. 31<sup>st</sup> 2001. the Preliminary Amendment filed on Dec 31<sup>st</sup> 2001 has claims 3-16, whereas the amendment filed on May 2<sup>nd</sup> 2002 has claims 3-8. It is unclear to the examiner that whether or not claims 3-16 filed on Dec 31<sup>st</sup> 2001 are all cancelled, or claims 3-8 filed in May 2002 are only to replace claims 3-8 in the Amendment filed in Dec. 2001, and keeping claims 9-16. Clarification is required.

For the time being, the examiner takes the position that the later filed Amendment is to replace the earlier filed Amendment. Thus, only claims 1-8 are pending.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito et al (US 6465763) in view of Bogdanski et al (US 6150636) or Soma et al (US 5231690).

Ito discloses a ceramic heater comprised of a ceramic substrate and a resistance heating element.

The ceramic substrate is an inorganic material which can be a nitride ceramic material or a carbide ceramic material (col 4 L 15-18). The ceramic substrate has a

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thickness of from 0.5-25 mm and a diameter of (over 150mm (col 5 L 9-10, L 25-27)).

From Fig. 1 the ceramic heater has a disc shape.

It is silent about the circumference of the heating element is within 35mm from the side face of the ceramic substrate.

Bogdanski teaches an electric hotplate comprised of a circular shape ceramic substrate and a resistance heating element (col 6 L 20-22 & L 34-35).

Bogdanski further teaches that the heating element extends up to a distance from the outer rim of the ceramic substrate, preferably over the entire upper cooking surface of the electric hotplate (col 6 L 46-50).

Soma also teaches a heater comprised of an inorganic substrate and a resistance heating element (col 3 L 9-14 & L 49-51).

The resistance heating element (7) is formed within the silicon nitride substrate (6) and over the entire discoidal substrate (6) (col 6 L 10-12 & Fig. 3).

In view of the prior art teachings, it would have been conventional and obvious that a heater would having a heating element that is at least formed over half of the ceramic substrate (ie. from the center of the substrate), because it would give a more uniform heating and cooling to the entire ceramic substrate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy Lam whose telephone number is (703) 308-2418. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (703) 308-3822. The fax phone

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numbers for the organization where this application or proceeding is assigned are (703) 872-9604 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

  
Cathy Lam  
Primary Examiner  
Art Unit 1775

cfl  
November 22, 2002